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Packet Tracer - Investigating the TCP/IP and OSI Models in Action

Part 1

Step 2

d. Look at the client browser page. Did anything change?

Si, se veía como se mandaba un sobre que se quedó en web client

Step 3

b. What is the text displayed next to the Layer 7 label?

HTTP

What information is listed in the numbered steps directly below the In Layers and Out Layers boxes?

1. The HTTP client send a HTTP request to server

c. Click Next Layer. Layer 4 should be highlighted. What is the Dst Port value?

80

d. Click Next Layer. Layer 3 should be highlighted. What is the Dest. IP value?

192.168.1.254

e. Click Next Layer. What information is displayed at this layer?

Ethernet II Header 0060.47CA.4DEE > > 0001.96A9.401D



What is the common information listed under the IP section of PDU Details as compared to the information listed under the OSI Model tab? With which layer is it associated?

Layer 3: SRC IP (Source IP), DST IP (Destination IP)

What is the common information listed under the TCP section of PDU Details, as compared to the information listed under the OSI Model tab, and with which layer is it associated?

Layer 4: SRC Port (Source port), DEST PORT (Destination port)

What is the Host listed under the HTTP section of the PDU Details? What layer would this information be associated with under the OSI Model tab?

Layer 7:

Get / HTTP/1.1 Accept-Language: en-us Accept: */* Connection: close Host: www.osi.local

Comparing the information displayed in the In Layers column with that of the Out Layers column, what are the major differences?

Que los puertos, las IP y las MAC se intercambiaron, lo que en In Layers era de origen, en Out Layers es de destino y lo que en In Layers era de destino en Out Layers es de origen.

What is the first line in the HTTP message that displays?

HTTP/1.1 200 OK

Click the last colored square box under the Info column. How many tabs are displayed with this event and why?

Se muestran 2, OSI Model e Inbound PDU Detail. Esto es porque el Web client es el dispositivo receptor.

Part 2

Step 1

b. What additional Event Types are displayed?

DNS, ARP, TCP, HTTP

d. What information is listed in the NAME: in the DNS QUERY section?

www.osi.local

e. Click the last DNS Info colored square box in the event list. Which device is displayed?

Web Client

What is the value listed next to ADDRESS: in the DNS ANSWER section of the Inbound PDU Details?

192.168.1.254, que es la dirección del Web Server

f. In the numbered list directly below the In Layers and Out Layers, what is the information displayed under items 4 and 5?

4. The TCP connection is successful

5. The device sets the connection state to ESTABLISHED

g. What is the purpose of this event, based on the information provided in the last item in the list (should be item 4)?

4. Sent segment information: the sequence number 103, the ACK number 273, and the data length 20.

El propósito de este elemento es cerrar la sesión